

## Refine Search

### Search Results -

Terms	Documents
L27 and cardio\$	6

**Database:**

- US Pre-Grant Publication Full-Text Database
- US Patents Full-Text Database
- US OCR Full-Text Database
- EPO Abstracts Database
- JPO Abstracts Database
- Dowker World Patents Index
- IBM Technical Disclosure Bulletins

**Search:**

L28

Recall Text

Clear

Interrupt

### Search History

**DATE:** Tuesday, May 24, 2005 [Printable Copy](#) [Create Case](#)

<u>Set Name</u> <u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side	result set	
<i>DB=USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<u>L28</u> L27 and cardio\$	6	<u>L28</u>
<u>L27</u> (betaine\$)near5 (treat\$)	195	<u>L27</u>
<i>DB=JPAB; PLUR=YES; OP=ADJ</i>		
<u>L26</u> JP-3072858-B2.did.	0	<u>L26</u>
<i>DB=USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<u>L25</u> (betaine\$)near10 (cardio\$)	18	<u>L25</u>
<u>L24</u> l9 near10 l12	10	<u>L24</u>
<u>L23</u> l9 same l12	24	<u>L23</u>
<u>L22</u> 6054128.pn. and betaine	0	<u>L22</u>
<u>L21</u> 6054128.pn. and vitamin	2	<u>L21</u>
<u>L20</u> L19 and vitamin b12	1	<u>L20</u>
<u>L19</u> 6054128.pn.	2	<u>L19</u>
<u>L18</u> 6054128.pn. and vitamin b12	1	<u>L18</u>
<i>DB=USPT; PLUR=YES; OP=ADJ</i>		

L17 US-6054128-A.did. 1 L17  
L16 US-6551629-B1.did. 1 L16  
*DB=USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ*  
L15 L14 near10 19 11 L15  
L14 vitamin b12 3577 L14  
L13 l9 near10 l10 6 L13  
L12 betaine 19100 L12  
L11 pyridoxine 4826 L11  
L10 cobalamin 695 L10  
L9 cardiovascular 52378 L9  
L8 casomokinin 3 L8  
L7 casein near1 A Near2 2 3 L7  
L6 casein A Near2 2 0 L6  
L5 beta casein A 2 L5  
L4 beta casein 546 L4  
L3 casein A2 7 L3  
L2 (casomorphine or casomorphin)near3 9 0 L2  
L1 (casomorphine or casomorphin) 91 L1

END OF SEARCH HISTORY

## Refine Search

### Search Results -

Terms	Documents
casein near1 A Near2 2	3

**Database:**

US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Search:**

L7

### Search History

DATE: Tuesday, May 24, 2005 [Printable Copy](#) [Create Case](#)

**Set Name** Query  
side by side

**Hit Count** **Set Name**  
result set

DB=USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ		
<u>L7</u> casein near1 A Near2 2	3	<u>L7</u>
<u>L6</u> casein A Near2 2	0	<u>L6</u>
<u>L5</u> beta casein A	2	<u>L5</u>
<u>L4</u> beta casein	546	<u>L4</u>
<u>L3</u> casein A2	7	<u>L3</u>
<u>L2</u> (casomorphine or casomorphin)near3 9	0	<u>L2</u>
<u>L1</u> (casomorphine or casomorphin)	91	<u>L1</u>

END OF SEARCH HISTORY

SWER 4 OF 8 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER: 95:2501 CABA

DOCUMENT NUMBER: 19940405135

TITLE: Enzymatic release of pro-[beta]-**casomorphin-9** and [beta]-**casomorphin-9** from bovine [beta]-casein

AUTHOR: Yoshikawa, M.; Suganuma, H.; Takahashi, M.; Fukudome, S. I.; Chiba, H.; Brantl, V. [EDITOR]; Teschemacher, H. [EDITOR]

CORPORATE SOURCE: Department of Food Science and Technology, Kyoto University, Kyoto 606-01, Japan.

SOURCE: [beta]-Casomorphins and related peptides: recent developments, (1994) pp. 38-42. 10 ref.  
Publisher: VCH Verlagsgesellschaft mbH. Weinheim  
Meeting Info.: [beta]-Casomorphins and related peptides: recent developments.

ISBN: 3-527-30038-4

PUB. COUNTRY: Germany, Federal Republic of

DOCUMENT TYPE: Conference Article

LANGUAGE: English

ENTRY DATE: Entered STN: 19950120

Last Updated on STN: 19950120

AB The following 2 peptides, which showed weak opioid activity in guineapig ileum assay, were isolated from a thermolysin digest of bovine [beta]-casein: pro-[His8]-[beta]-**casomorphin-9** (sequence Val-Tyr-Pro-Phe-Pro-Gly-Pro-Ile-His-Asn); and pro-[Pro8]-[beta]-**casomorphin-9** (sequence Val-Tyr-Pro-Phe-Pro-Gly-Pro-Ile-Pro-Asn). Opioid activity was increased to approximately that of [beta]-casomorphin-7 by removal of the Val residue at the N-terminal end. The [beta]-casomorphins and pro-[beta]-casomorphins, particularly [His8]-[beta]-**casomorphin-9**, also showed inhibitory activity for angiotensin-converting enzyme.

L2 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1995:351814 CAPLUS  
DOCUMENT NUMBER: 122:129478  
TITLE: Enzymic release of pro- $\beta$ - **casomorphin-9** and  $\beta$ - **casomorphin-9**  
from bovine  $\beta$ -casein  
AUTHOR(S): Yoshikawa, M.; Suganuma, H.; Takahashi, M.; Fukudome,  
S.-I.; Chiba, H.  
CORPORATE SOURCE: Department Food Science and Technology, Kyoto  
University, Chuo, 103, Japan  
SOURCE: [Beta]-Casomorphins Relat. Pept. [Int. Symp.], 2nd  
(1994), 38-42  
CODEN: 60UMAA  
DOCUMENT TYPE: Conference  
LANGUAGE: English  
AB Two opioid peptides, Val-Tyr-Pro-Phe-Pro-Gly-Pro-Ile-His-Asn  
(pro-[His8]- $\beta$ - **casomorphin-9**) and  
Val-Tyr-Pro-Phe-Pro-Gly-Pro-Ile-Pro-Asn (pro-[Pro8]- $\beta$ -  
**casomorphin-9**), were isolated from a thermolysin digest  
of bovine  $\beta$ -casein. These peptides showed weak opioid activities in  
the guinea-pig ileum assay system. [His8]- $\beta$ - **casomorphin-9** and [Pro8]-**casomorphin-9**, which were  
obtained by leucine-aminopeptidase treatment of pro- $\beta$ -casomorphins-9,  
showed almost the same activity as  $\beta$ -casomorphin-7. These peptides  
also showed inhibitory activity for angiotensin-converting enzyme.

```
=> e casomorphin 9/cn
E1      1      CASOMOKININ L/CN
E2      1      CASOMORPHIN/CN
E3      0 --> CASOMORPHIN 9/CN
E4      1      CASOMORPHIN, PRO-/CN
E5      1      CASOMORPHIN, PRO- (OX) /CN
E6      1      CASOMORPHINASE/CN
E7      1      CASORON/CN
E8      1      CASORON 133/CN
E9      1      CASORON G/CN
E10     1      CASOXIN 4/CN
E11     1      CASOXIN 5/CN
E12     1      CASOXIN 6/CN

=> e casein a2/cn
E1      1      CASEIN A (GUINEA PIG REDUCED)/CN
E2      1      CASEIN A, PRE- (GUINEA PIG REDUCED)/CN
E3      0 --> CASEIN A2/CN
E4      1      CASEIN ALPHA (MOUSE STRAIN C57BL/6J CLONE MGC:6596 IMAGE:348
6384)/CN
E5      1      CASEIN ALPHA (MOUSE STRAIN FVB/N CLONE MGC:6493 IMAGE:264788
7)/CN
E6      1      CASEIN ALPHA (MOUSE STRAIN MIX FVB/N, C57BL/6J CLONE MGC:659
6 IMAGE:3486384)/CN
E7      1      CASEIN B (GUINEA PIG)/CN
E8      1      CASEIN B, PRE- (GUINEA PIG)/CN
E9      1      CASEIN BETA (HUMAN CLONE MGC:96987 IMAGE:7262196 GENE CSN2) /
CN
E10     1      CASEIN BETA (MOUSE STRAIN C57BL/6J CLONE MGC:13709 IMAGE:367
0912)/CN
E11     1      CASEIN BETA (MOUSE STRAIN C57BL/6J CLONE MGC:29143 IMAGE:348
3918)/CN
E12     1      CASEIN BETA (MOUSE STRAIN MIX FVB/N, C57BL/6J CLONE MGC:1370
9 IMAGE:3670912)/CN

=> e casomorphine 9/cn
E1      1      CASOMORPHIN, PRO- (OX) /CN
E2      1      CASOMORPHINASE/CN
E3      0 --> CASOMORPHINE 9/CN
E4      1      CASORON/CN
E5      1      CASORON 133/CN
E6      1      CASORON G/CN
E7      1      CASOXIN 4/CN
E8      1      CASOXIN 5/CN
E9      1      CASOXIN 6/CN
E10     1      CASOXIN C/CN
E11     1      CASOXIN D/CN
E12     1      CASP-1/CN
```